

Sub  
135-9+  
microlens.

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### REMARKS

In the aforementioned Office Action, the Examiner has rejected claim 1 under 35 U.S.C. §112 for being indefinite. The Examiner has also rejected claims 1-5 under 35 U.S.C. §102(b) as being anticipated by the Clark reference.

In response, independent claims 1 and 5 have been amended to more clearly describe the present invention and to recite a microlens that is attached to the back side of a substrate. New claim 6 has been added. Support for the new claim and for the claim amendments is found in the specification on Page 3, Lines 9-15 and in Figs. 1 and 2. Claims 1-6 remain pending.

#### Rejections Under 35 U.S.C. §112 (Second Paragraph)

With respect to the rejection of Claim 1 for being indefinite, Claim 1 has been amended to establish antecedent basis for the "focal plane array" language cited by the Examiner, and to more clearly describe the present invention. Applicant believes that amended Claim 1 now has proper antecedent basis, which further obviate the indefiniteness issue with respect to this claim.

#### Rejections Under 35 U.S.C. §102(b)

Regarding the rejection of the claims as being anticipated by the Clark reference, independent Claims 1 and 5 now recite a microlens that is attached to the backside of a substrate. Conversely, the corresponding structure in Clark is merely shown and disclosed and depicted as as a lens which focuses incident radiation onto a focal plane. Accordingly, the Clark reference does not meet the element-by-element requirements of Sec. 102(b).

Applicant has made a bona fide effort to remove informalities from the specification and to properly amend the claims. As such, it is believed the present application is in a condition for allowance. Accordingly, a Notice to that effect is most respectfully requested.

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Dated: December 10, 2002.

Respectfully submitted,



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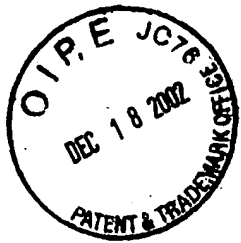


Exhibit A  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Thomas M. Colandene )  
Serial No.: 09/888,509 ) Examiner J. Martinez  
Filed: June 26, 2001 ) Art Unit 2873  
Title: OFF-FOCAL PLANE MICRO-OPTICS )

RULE 111 AMENDMENT

MARKED-UP VERSION OF REWRITTEN CLAIMS 1 AND 5

PER 37 C.F.R. SEC. 1.121(c)

1. (Amended) An apparatus for providing a micro-optic function [micro-optics in a substrate located approximate to the focal plane array] within an optical system comprising:  
a focal plane array (FPA) having a detector surface, wherein input radiation from a viewed scene is received by the optical system; and,  
a substrate with a front side and a [and] back side, said [backside] back side further including at least one [a] microlens attached thereto, said substrate [is] being positioned approximate to the focal plane within said optical system, [whereby there is created a micro-optic function at the detector focal plane] wherein said microlens re-focuses said radiation and re-directs said radiation onto said detector surface.
4. (Amended) A micro-optic technique for a substrate within an optical system having a focal plane array (FPA) detector surface, comprising the steps of:  
receiving [in put] incident radiation from a viewed scene through an optical assembly [onto a focal plane of an optical system];  
providing a substrate having a front side and a back side on the optical axis in

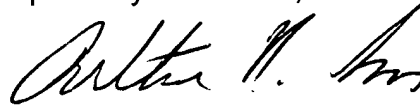
proximity to the focal plane within said optical assembly;

[providing] attaching at least one [a] micro-optic on the substrate to said back side;  
and,

re-focusing said radiation onto said detector surface with said micro-optic, after said radiation has passed through said substrate, to establish [, whereby there is created] a micro-optic effect from the substrate at said FPA detector surface.

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